

## COMPRESSION-MOLDED SILICON CARBIDE STRUCTURES

### Abstract

A process for forming a silicon carbide structure includes molding by compression a mixture of a silicon precursor powder and a cross-linking thermoset resin to form a rigid structure, carbonizing the rigid structure, and forming a silicon carbide structure by heating the carbonized rigid structure at a temperature sufficient to allow carbon and silicon in the structure to react to form silicon carbide.

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